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New Power System and Symmetry

Guest Editors:

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Deadline for manuscript submissions:
31 December 2024

Message from the Guest Editors

Due to the global challenges such as climate warming,There is a huge challenge in maintaining power symmetry and balance in the new power system, which puts forward higher requirements on perception, cognition, and decision-making abilities. Thus, studies on new power systems and symmetry are of great significance. <false,>This Special Issue invites researchers to submit original research papers and review articles related to new power systems and symmetry. Applied case studies are especially welcome. The topics of interest include, but are not limited to, the following:<false,>Symmetry and balance of active power in new power systems;
Symmetry and balance of reactive power in new power systems;
Symmetry in power electronic devices;
Analysis of symmetrical and asymmetrical disturbances;
Control strategy of symmetrical and asymmetrical disturbances;
Symmetry in power system planning;
Symmetry in power system operation;
Symmetry in electricity market;
Evolution process of symmetry in new power systems;
Analysis and processing method of symmetrical and asymmetrical signals;
Symmetry in high performance computing.

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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